

Regional Workshop on Editing (Data Cleansing) of Statistics produced from Administrative Registers

Working with Administrative Agencies

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Overview

- Use of Administrative Data in Statistical Systems
- Relationships
- Managing Differences



Use of Administrative Data in Statistical Systems in GCC Countries (1)



Aggregates

Single Register Source

Multiple Registers (or Registers and Survey results)

Marriage and Divorce Statistics
External Trade Statistics

Health Statistics
Culture Statistics
Labour Statistics

Examples

Use of Administrative Data in Statistical Systems in GCC (2)

Statistical Registers

- Use Unit Records
- Created from Administrative Registers
- Multiple Registers – linked using Identifiers
- May involve linking Registers and Survey (census) data

Statistical Registers
created from (Linked)
Administrative Registers

Linked Statistical
Registers and Survey
(Fieldwork) Data

Examples

2020 Census,
Business Register

2020 Census,
Business Register



Evolving Use of Administrative Data



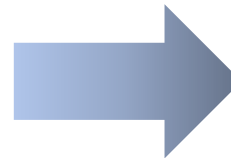
System Approach

Coordinated and Integrated Register System

Administrative Based End to End Statistical System

Examples

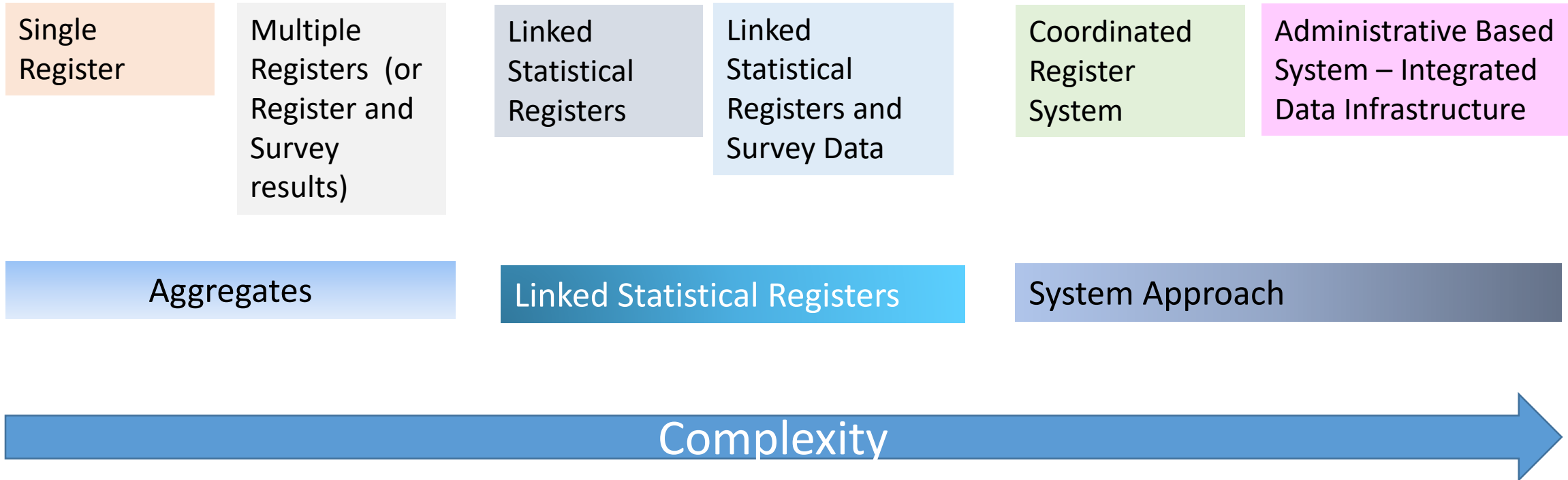
Future for many GCC statistical systems
Now in many European countries



Integrated Data Infrastructure - providing access to researchers for de-identified administrative based data



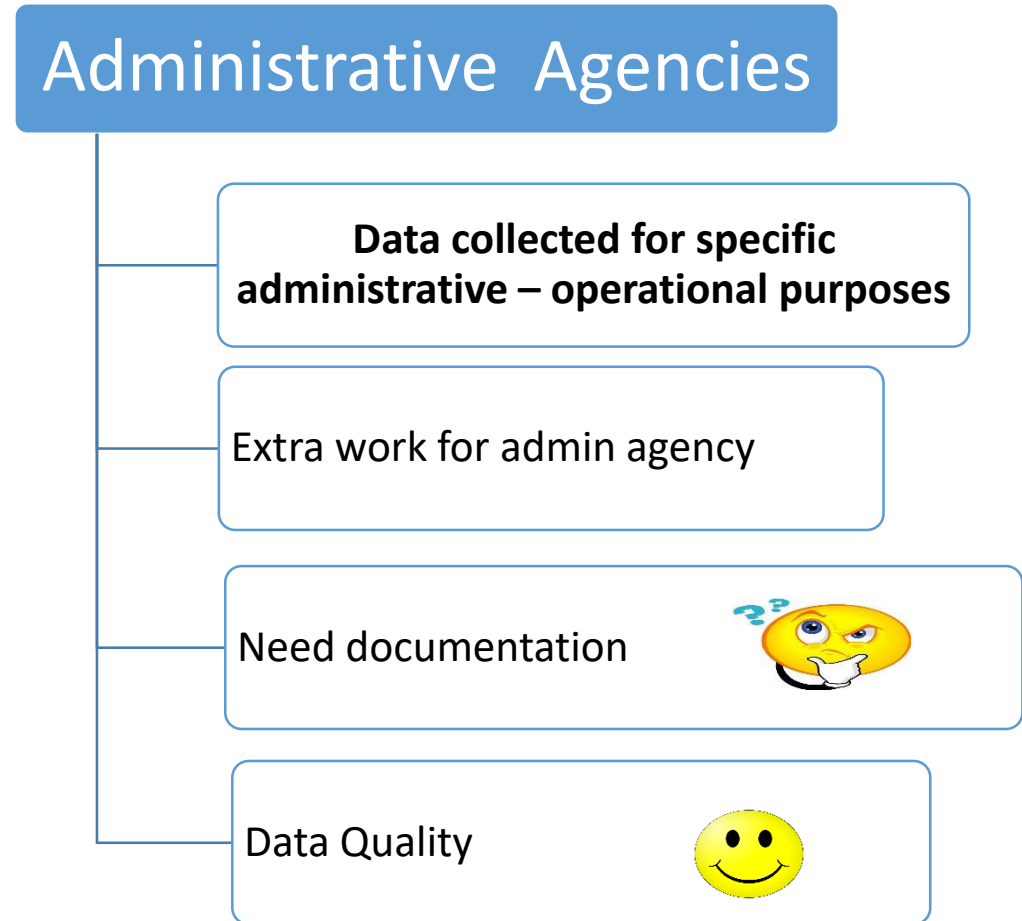
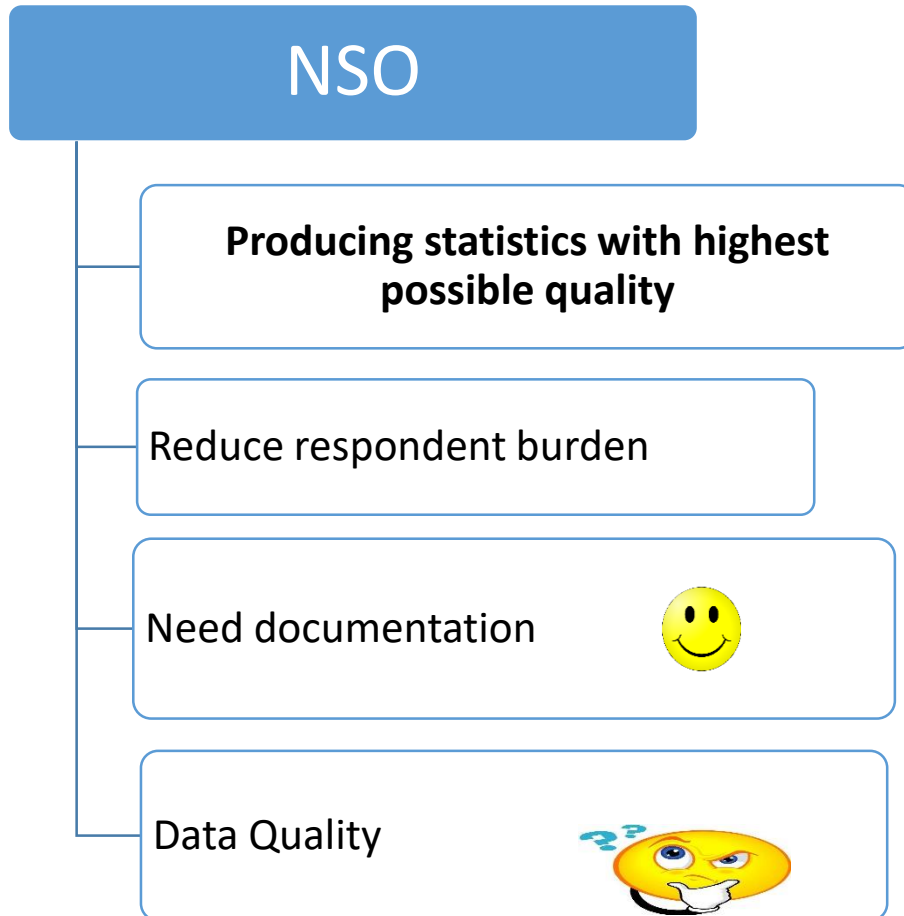
Increasing Complexity





Relationships

Perspectives on using Administrative data for statistics





Implications

NSO – must have	Agencies must have
<p>Strategic Leadership (including internal alignment)</p> <p>Clear Roles and Responsibilities (Internally, with Agencies)</p> <p>Strong Relationships with Agencies</p> <p>Documentation and Metadata guidelines</p> <p>Appropriate Governance</p> <p>Effective Communication</p> <p>Understanding of Agency Perspective</p>	<p>Good understanding of how data will be used</p> <p>Clear Requirements from NSO</p> <p>Clear Agency Roles and Responsibilities</p> <p>Relationships with NSO built on trust</p> <p>Effective Communication</p> <p>Appropriate involvement in Governance</p> <p>Understanding of NSO Perspective</p>



Co-operation with administrative authorities

- Legal basis
 - ❖ but that is not enough
- Active cooperation
 - Permanent cooperation committees with administrative agencies
 - NSO member of government committees on "ICT coordination"
 - Joint working group on administrative data quality
 - Statisticians seconded from NSO to work with agencies to improve data quality
 - Agency staff seconded to help NSO understand the administrative registers
 - Joint statistical reports

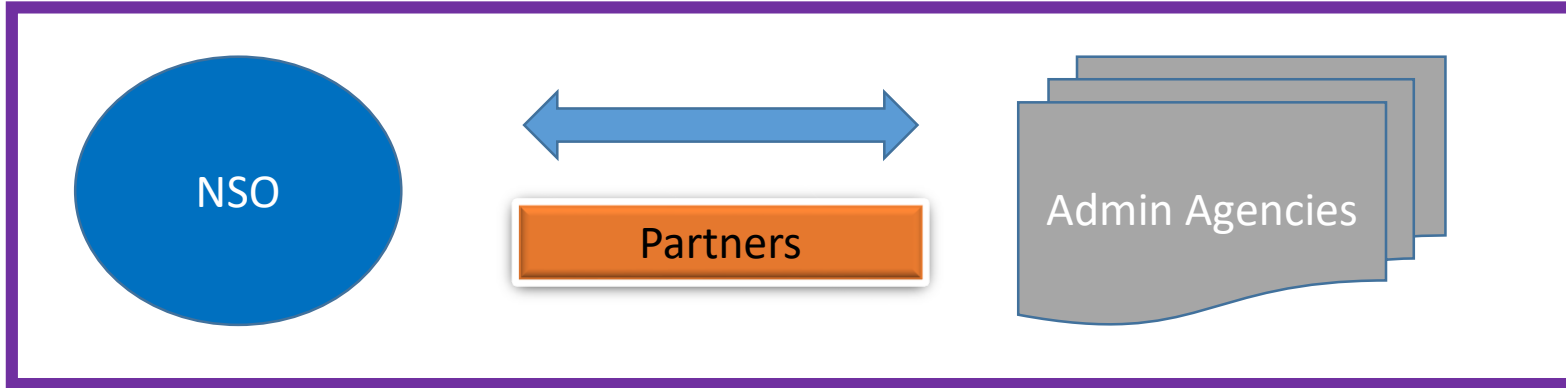


Managing Differences

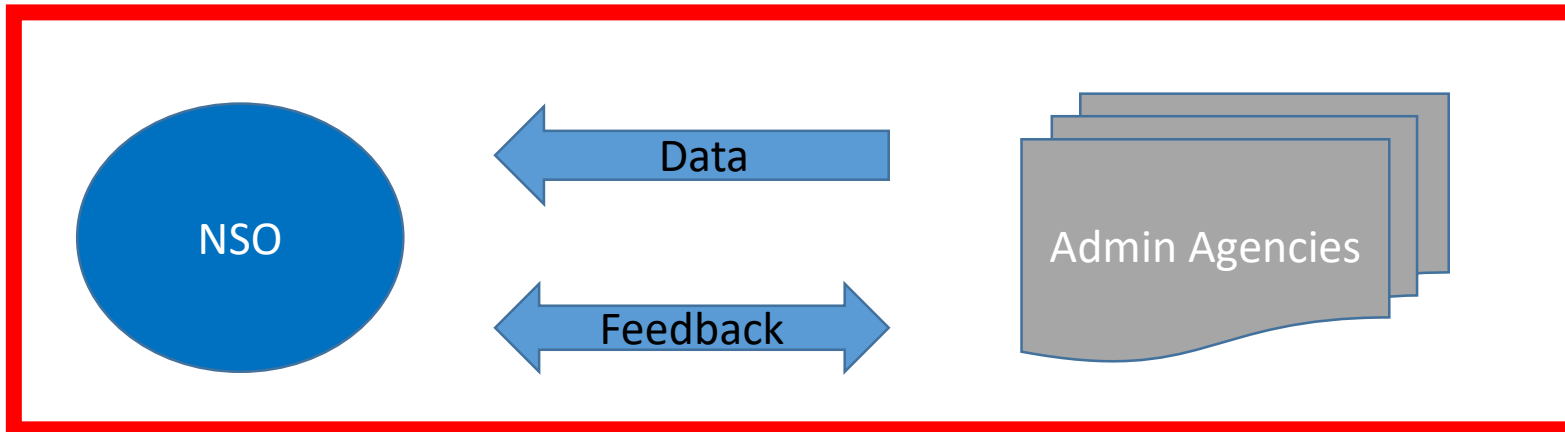


Context

Relationships



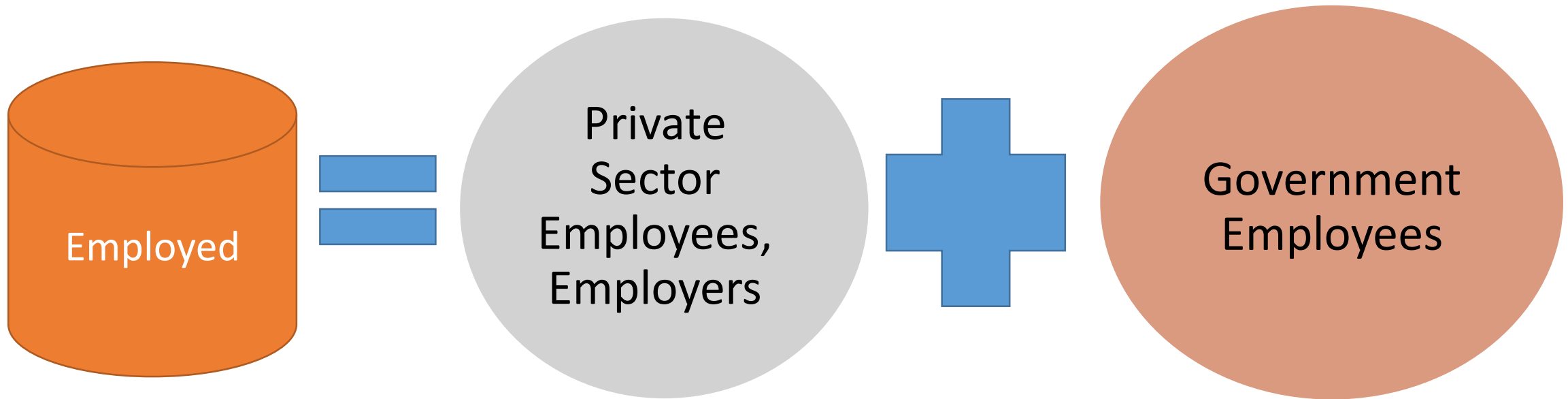
Feedback





Example – Counting the Employed in Census

Census – count everyone once and only once



Maybe Not



Conceptual Differences (1)

Census definitions must meet SNA framework

Private
Sector
Employees,
Employers

Government
Employees

Private Sector

- Government owned companies
- Privatised Government companies
- Contractors
- Self- Employment

Government Employees

- Military, Security Sector, Police
- Government owned companies
- Privatised Government companies



Conceptual differences (2)

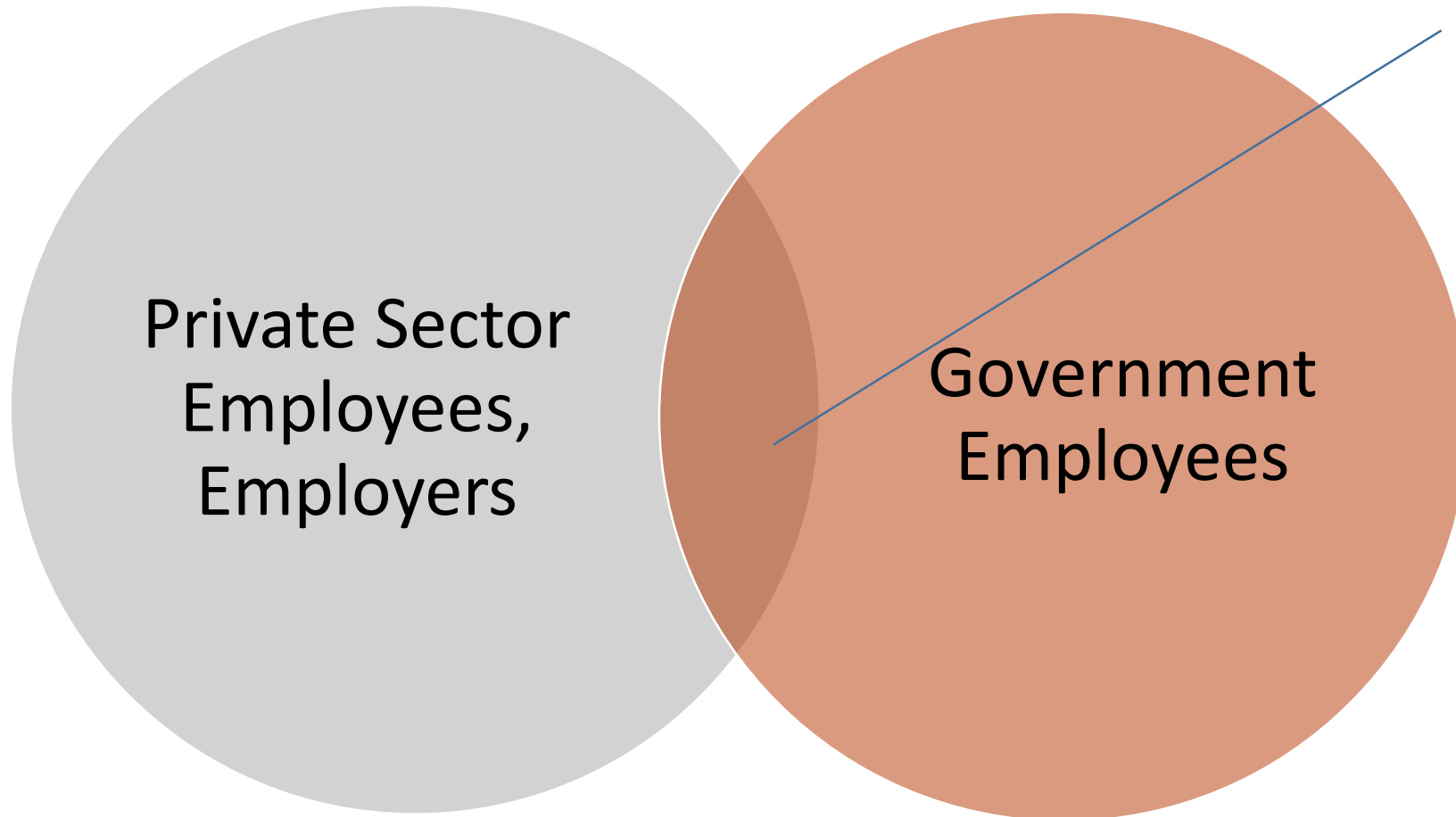
Private Sector
Employees,
Employers

Government
Employees

Is everyone a usual resident??? – **Statistical** not Administrative



Possible overlaps



How many people in the Government also have private sector jobs? Eg Own company??

count everyone once and only once



Gaps

What about???

Household
Workers

Private Sector
Employees,
Employers

Government
Employees

count everyone once and
only once



Quality Feedback

- **Systematic Quality Issues - YES**

- Supply
- Coverage errors – regions, parts of population expected to see on register
- Coding
- Data Entry
- Consistency errors within administrative registers
- Metadata

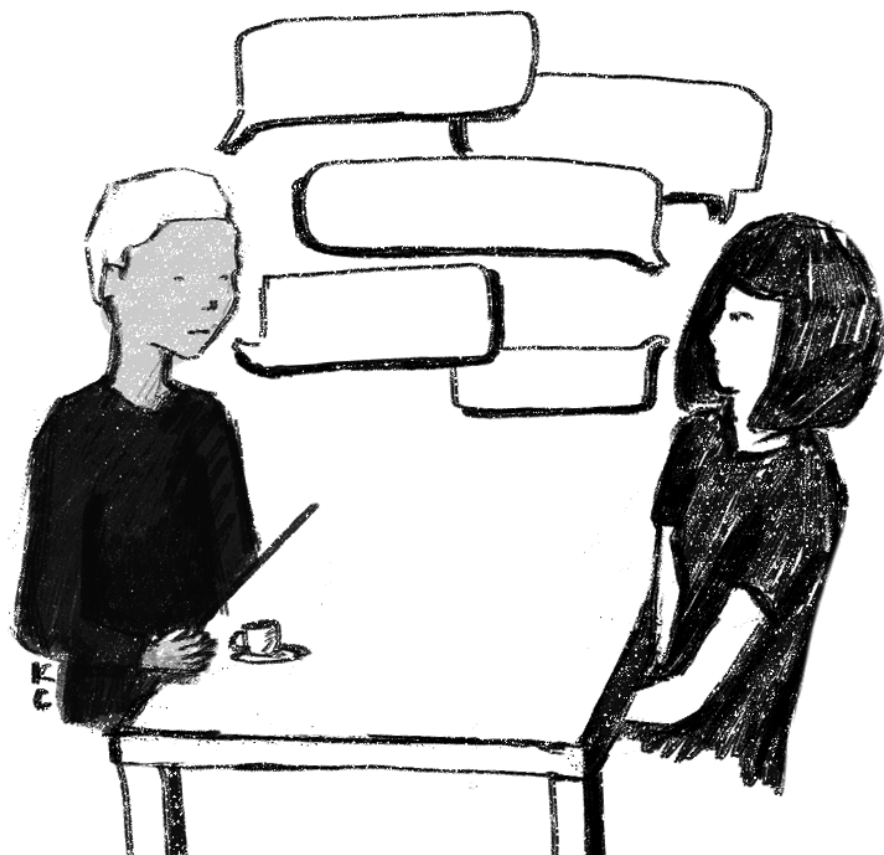
- **Feedback about Individual records - NO**

- Critical for maintaining **public** acceptance
- Statistical rules not same as Administrative rules
 - Eg Who is a usual resident?

Fundamental Principles of Official Statistics

Principle 6. Individual data collected by statistical agencies for statistical compilation, whether they refer to natural or legal persons, are to be strictly confidential and used exclusively for statistical purposes

Discussions with Agencies



1. Differences between Statistical and Administrative...
 1. Purposes
 2. Concepts
 3. Processes
 4. Outcomes

2. Quality Feedback

3. Before, During and Afterwards

We need to talk!!



Thank you

Questions



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Feedback

- Differences don't mean that the administrative system or administrative data is wrong
- Administrative and Statistical needs are different
- Important that differences are clear in the metadata – but also explained to key stakeholders